

## WEST Search History

DATE: Tuesday, May 29, 2007

Hide?	Set Name	Query	Hit Count
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L9	L8 and @py<2002	2
<input type="checkbox"/>	L8	L7 and antagonist	88
<input type="checkbox"/>	L7	L6 and bicyclic	88
<input type="checkbox"/>	L6	vegf and neuropilin 1	411
<i>DB=USPT,PGPB; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L5	ZACHARY-IAN!	4
<input type="checkbox"/>	L4	LOEHR-MARIANNE!	1
<input type="checkbox"/>	L3	SELWOOD-DAVID!	7
<input type="checkbox"/>	L2	SELWOOD-DAVID!	7
<input type="checkbox"/>	L1	SELWOOD-DAVID!	7

END OF SEARCH HISTORY

Case# 10/507, 463,  
WEST  
5/29/07  
AG

FILE 'BIOSIS' ENTERED AT 10:28:51 ON 29 MAY 2007  
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FILE 'MEDLINE' ENTERED AT 10:28:51 ON 29 MAY 2007

=> s vegf and neuropilin  
L1 698 VEGF AND NEUROPILIN

=> s l1 and bicyclic  
L2 2 L1 AND BICYCLIC

=> dup rem l2  
PROCESSING COMPLETED FOR L2  
L3 1 DUP REM L2 (1 DUPLICATE REMOVED)

=> disp l3 ibib abs 1-1

L3 ANSWER 1 OF 1 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
DUPLICATE 1

ACCESSION NUMBER: 2006:465243 BIOSIS

DOCUMENT NUMBER: PREV200600471119

TITLE: Characterization of a bicyclic peptide  
neuropilin-1 (NP-1) antagonist (EG3287) reveals  
importance of vascular endothelial growth factor Exon 8 for  
NP-1 binding and role of NP-1 in KDR signaling.

AUTHOR(S): Jia, Haiyan; Bagherzadeh, Azadeh; Hartzoulakis, Basil;  
Jarvis, Ashley; Loehr, Marianne; Shaikh, Shaheda; Aqil,  
Rehan; Cheng, Lili; Tickner, Michelle; Esposito, Diego;  
Harris, Richard; Driscoll, Paul C.; Selwood, David L.;  
Zachary, Ian C. [Reprint Author]

CORPORATE SOURCE: Univ Coll London, BHF Labs, Dept Med, Ctr Cardiovasc Biol  
and Med, 5 Univ St, London WC1E 6JJ, UK  
i.zachary@ucl.ac.uk

SOURCE: Journal of Biological Chemistry, (MAY 12 2006) Vol. 281,  
No. 19, pp. 13493-13502.  
CODEN: JBCHA3. ISSN: 0021-9258.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 20 Sep 2006

Last Updated on STN: 20 Sep 2006

AB Neuropilin- 1 ( NP- 1) is a receptor for vascular endothelial  
growth factor- A(165) ( VEGF- A(165)) in endothelial cells. To  
define the role of NP- 1 in the biological functions of VEGF, we  
developed a specific peptide antagonist of VEGF binding to NP- 1  
based on the NP- 1 binding site located in the exon 7- and 8- encoded  
VEGF- A165 domain. The bicyclic peptide, EG3287,  
potently ( K-i 1.2 mu M) and effectively (> 95% inhibition at 100 mu M)  
inhibited VEGF- A(165) binding to porcine aortic endothelial  
cells expressing NP- 1 ( PAE/ NP- 1) and breast carcinoma cells expressing  
only NP- 1 receptors for VEGF- A, but had no effect on binding  
to PAE/ KDR or PAE/ Flt- 1. Molecular dynamics calculations, a nuclear  
magnetic resonance structure of EG3287, and determination of stability in  
media, indicated that it constitutes a stable subdomain very similar to  
the corresponding region of native VEGF- A(165). The C terminus  
encoded by exon 8 and the three- dimensional structure were both critical  
for EG3287 inhibition of NP- 1 binding, whereas modifications at the N  
terminus had little effect. Although EG3287 had no direct effect on  
VEGF- A(165) binding to KDR receptors, it inhibited cross- linking  
of VEGF- A(165) to KDR in human umbilical vein endothelial cells  
co- expressing NP- 1, and inhibited stimulation of KDR and PLC- gamma  
tyrosine phosphorylation, activation of ERKs1/ 2 and prostanoid  
production. These findings characterize the first specific antagonist of  
VEGF- A(165) binding to NP- 1 and demonstrate that NP- 1 is

Con #10/507, 463.  
STN (MEDLINE, BIOSIS)

AD  
8/29/07

essential for optimum KDR activation and intracellular signaling. The results also identify a key role for the C- terminal exon 8 domain in VEGF- A(165) binding to NP-1.

=>

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FILE COVERS 1907 - 29 May 2007 VOL 146 ISS 23  
FILE LAST UPDATED: 28 May 2007 (20070528/ED)

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=> E LOEHR MARIANNE/IN 25

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E2	2	LOEHR M E/IN
E3	3	--> LOEHR MARIANNE/IN
E4	1	LOEHR MARK/IN
E5	3	LOEHR MARKUS/IN
E6	1	LOEHR MARTIN/IN
E7	8	LOEHR MATTHIAS/IN
E8	1	LOEHR NORBERT/IN
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E10	7	LOEHR REINHOLD/IN
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E12	1	LOEHR STEFAN/IN
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=> S (E3) AND (VEGF)

3 "LOEHR MARIANNE"/IN  
19462 VEGF  
173 VEGFS  
19477 VEGF  
(VEGF OR VEGFS)

L2 2 ("LOEHR MARIANNE"/IN) AND (VEGF)

=> DIS L2 1 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:796747 CAPLUS  
DOCUMENT NUMBER: 139:286375  
TITLE: Sequences of VEGF peptides and their use for  
neurodegeneration and anti-cancer therapy  
INVENTOR(S): Selwood, David; Loehr, Marianne; Zachary,  
Ian  
PATENT ASSIGNEE(S): Ark Therapeutics Ltd., UK  
SOURCE: PCT Int. Appl., 21 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082918	A1	20031009	WO 2003-GB1375	20030328
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2481253	A1	20031009	CA 2003-2481253	20030328
AU 2003226515	A1	20031013	AU 2003-226515	20030328
EP 1490401	A1	20041229	EP 2003-745335	20030328
EP 1490401	B1	20070425		
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CN 1642979	A	20050720	CN 2003-807113	20030328
JP 2005531527	T	20051020	JP 2003-580381	20030328
AT 360644	T	20070515	AT 2003-745335	20030328
US 2006166868	A1	20060727	US 2004-507463	20040910
NO 2004004105	A	20041027	NO 2004-4105	20040927
PRIORITY APPLN. INFO.:			GB 2002-7644	A 20020402
			WO 2003-GB1375	W 20030328

ABSTRACT:

A novel peptide having the amino acid sequence SCKNTDSRCKARQLELNERTCRCDKPRR or a fragment thereof that substantially retains NP-1 antagonist activity, in cyclic form, is proposed for use in therapy. The invention also relates to the use of this peptide in neurodegeneration and anti-cancer therapy.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L2 2 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:332207 CAPLUS  
DOCUMENT NUMBER: 136:350545  
TITLE: VEGF peptides and their use for inhibiting  
angiogenesis  
INVENTOR(S): Selwood, David; Zachary, Ian; Jia, Haiyan; Loehr,  
Marianne; Davis, Dana  
PATENT ASSIGNEE(S): Ark Therapeutics Ltd., UK  
SOURCE: PCT Int. Appl., 23 pp.

DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002034767	A1	20020502	WO 2001-GB4736	20011025
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2426736	A1	20020502	CA 2001-2426736	20011025
AU 2002010713	A5	20020506	AU 2002-10713	20011025
EP 1328539	A1	20030723	EP 2001-978615	20011025
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
HU 200301523	A2	20031028	HU 2003-1523	20011025
HU 200301523	A3	20061128		
JP 2004512342	T	20040422	JP 2002-537757	20011025
CN 1612893	A	20050504	CN 2001-817997	20011025
NO 2003001845	A	20030424	NO 2003-1845	20030424
US 2004054143	A1	20040318	US 2003-398616	20030806
PRIORITY APPLN. INFO.:			GB 2000-26134	A 20001025
			WO 2001-GB4736	W 20011025

# ABSTRACT:

A peptide having part or all of the amino acid sequence QKRKRKKSRYKSWSP (which is part of VEGF) has the ability to inhibit angiogenesis.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> E ZACHARY IAN/IN 25

E1	1	ZACHARY ALAN E/IN
E2	1	ZACHARY BRYAN A/IN
E3	4 -->	ZACHARY IAN/IN
E4	1	ZACHARY JAMES H/IN
E5	1	ZACHARY KIMBERLY J/IN
E6	1	ZACHARY NOLD SNIDERMAN/IN
E7	4	ZACHARY RICHARD E/IN
E8	1	ZACHARY WAYNE/IN
E9	1	ZACHARZEWSKA BOGUSLAWA/IN
E10	4	ZACHARZEWSKI BOLES LAW/IN
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E14	2	ZACHAU CHRISTIANSEN BIRGIT/IN
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E25 1 ZACHER DAVID M/IN

=> S (E3) AND (VEGF)

4 "ZACHARY IAN"/IN

19462 VEGF

173 VEGFS

19477 VEGF

(VEGF OR VEGFS)

L3 3 ("ZACHARY IAN"/IN) AND (VEGF)

=> DIS L3 1 TI

L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

TI VEGF-induced gene in HUVEC identified by microarray and their therapeutic use in angiogenesis

=> DIS L3 2 TI

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

TI Sequences of VEGF peptides and their use for neurodegeneration and anti-cancer therapy

=> DIS L3 3 TI

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

TI VEGF peptides and their use for inhibiting angiogenesis

=> DIS L3 1 IBIB IABS

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L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:260099 CAPLUS

DOCUMENT NUMBER: 142:310910

TITLE: VEGF-induced gene in HUVEC identified by microarray and their therapeutic use in angiogenesis

INVENTOR(S): Zachary, Ian; Liu, Dan

PATENT ASSIGNEE(S): Ark Therapeutics Ltd., UK

SOURCE: PCT Int. Appl., 15 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005026206	A2	20050324	WO 2004-GB3956	20040916
WO 2005026206	A3	20050818		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
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EP 1664105	A2	20060607	EP 2004-768502	20040916

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK

PRIORITY APPLN. INFO.:

GB 2003-21694

A 20030916

WO 2004-GB3956

W 20040916

ABSTRACT:

A product for therapeutic use in promoting angiogenesis is a gene or product identified as upregulated by VEGF (vascular endothelial growth factor). To investigate VEGF-regulated gene expression, cRNA was prepared from confluent cultures of HUVECs that had been treated with \*\*\*VEGF\*\*\*, and hybridized with Affymetrix high-d. oligonucleotide arrays representing more than 15,000 human genes. Eighteen genes were increased >2-fold in VEGF-treated HUVECs compared with untreated controls. Transcription factors made up the largest functional group of VEGF-induced genes. VEGF induced expression of genes encoding the three related orphan nuclear receptors, NR4A1, NR4A2 and NR4A3 and genes for several cytokines and growth factors. VEGF increased expression of two ion channels: the inwardly-rectifying potassium K<sup>+</sup> channel, Kir 2.1, and the small-conductance Cat2+-activated K<sup>+</sup> channel, SK2 or KCNN2. Several signaling molecules were induced by VEGF, of which the serine/threonine kinase Cot (mitogen-activated protein kinase kinase kinase 8), and the dual specificity phosphatases DUSP-1 (MAP kinase phosphatase 1) and DUSP-5 (also called VH3), were the most prominently expressed. Several down-regulated genes encode either cell surface proteins or proteins associated with cell-cell junctions, including the tight junction component claudin 5, the gap junction protein connexin 37, epithelial V-like antigen 1 (EVA-1) and the water channel protein aquaporin 1. VEGF also significantly decreased expression of the TNF ligand superfamily member, TRAIL and 1,2- $\alpha$ -mannosidase, a Golgi-associated enzyme.

=> DIS L3 2 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:796747 CAPLUS

DOCUMENT NUMBER: 139:286375

TITLE: Sequences of VEGF peptides and their use for neurodegeneration and anti-cancer therapy

INVENTOR(S): Selwood, David; Loehr, Marianne; Zachary, Ian

PATENT ASSIGNEE(S): Ark Therapeutics Ltd., UK

SOURCE: PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082918	A1	20031009	WO 2003-GB1375	20030328
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2481253	A1	20031009	CA 2003-2481253	20030328
AU 2003226515	A1	20031013	AU 2003-226515	20030328



EP 1490401	A1	20041229	EP 2003-745335	20030328
EP 1490401	B1	20070425		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1642979	A	20050720	CN 2003-807113	20030328
JP 2005531527	T	20051020	JP 2003-580381	20030328
AT 360644	T	20070515	AT 2003-745335	20030328
US 2006166868	A1	20060727	US 2004-507463	20040910
NO 2004004105	A	20041027	NO 2004-4105	20040927
PRIORITY APPLN. INFO.:			GB 2002-7644	A 20020402
			WO 2003-GB1375	W 20030328

ABSTRACT:

A novel peptide having the amino acid sequence SCKNTDSRCKARQLELNERTCRCDKPRR or a fragment thereof that substantially retains NP-1 antagonist activity, in cyclic form, is proposed for use in therapy. The invention also relates to the use of this peptide in neurodegeneration and anti-cancer therapy.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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FULL ESTIMATED COST		
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
	-3.12	-4.68
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FILE CONTAINS CURRENT INFORMATION.  
 LAST RELOADED: May 25, 2007 (20070525/UP).

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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FILE LAST UPDATED: 28 May 2007 (20070528/ED)

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<http://www.cas.org/infopolicy.html>

=> DIS L3 3 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:332207 CAPLUS

DOCUMENT NUMBER: 136:350545

TITLE: VEGF peptides and their use for inhibiting  
angiogenesis

INVENTOR(S): Selwood, David; Zachary, Ian; Jia, Haiyan;  
Loehr, Marianne; Davis, Dana

PATENT ASSIGNEE(S): Ark Therapeutics Ltd., UK

SOURCE: PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002034767	A1	20020502	WO 2001-GB4736	20011025
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
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EP 1328539	A1	20030723	EP 2001-978615	20011025
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
HU 200301523	A2	20031028	HU 2003-1523	20011025
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ABSTRACT:

A peptide having part or all of the amino acid sequence QKRKRKKSRYKSWSP (which is part of VEGF) has the ability to inhibit angiogenesis.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS  
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